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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Jain et al.

Confirmation No.: 9277

Serial No.: 10/533,047

Art Unit: 1651

Filed: December 14, 2005

Examiner: Leon B. Lankford Jr.

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Title: REPAIRING OR REPLACING TISSUES OR ORGANS

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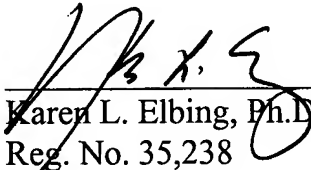
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Respectfully submitted,

Date: 06 Apr. 1 2007

  
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SUBSTITUTE FORM PTO-1449 (MODIFIED)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)  (37 C.F.R. § 1.98(b))	Attorney Docket No.	00786/433002
	Serial No.	10/533,047
	Applicant	Jain et al.
	Filing Date	December 14, 2005
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U.S. PATENT DOCUMENTS			
Examiner's Initials	Document Number	Publication Date	Patentee or Applicant
	4,895,558	Jan. 23, 1990	Cham
	5,041,138	Aug. 20, 1991	Vacanti et al.
	5,226,914	July 13, 1993	Caplan et al.
	5,368,858	Nov. 29, 1994	Hunziker
	5,489,304	Feb. 06, 1996	Orgill et al.
	5,632,745	May 27, 1997	Schwartz
	5,693,462	Dec. 02, 1997	Raymond
	5,716,404	Feb. 10, 1998	Vacanti et al.
	5,843,024	Dec. 01, 1998	Brasile
	5,869,037	Feb. 09, 1999	Crystal et al.
	6,024,698	Feb. 15, 2000	Brasile
	6,103,255	Aug. 15, 2000	Levene et al.
	6,197,061	Mar. 06, 2001	Masuda et al.
	6,197,586	Mar. 06, 2001	Bhatnagar et al.
	6,224,893	May 01, 2001	Langer et al.
	6,228,117	May 08, 2001	De Bruijn et al.
	6,328,990	Dec. 11, 2001	Ducheyne et al.
	6,331,422	Dec. 18, 2001	Hubbell et al.
	6,337,198	Jan. 08, 2002	Levene et al.
	6,376,742	Apr. 23, 2002	Zdrahala et al.
	6,419,702	Jul. 16, 2002	Ferree

EXAMINER	DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.	

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U.S. PATENT DOCUMENTS			
	6,451,060	Sep. 17, 2002	Masuda et al.
	20020142397	Oct. 03, 2002	Collas et al.
	20020160471	Oct. 31, 2002	Kisiday et al.
	20050014258	Jan. 20, 2005	Collas et al.

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION				
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Translation (Yes/No)
	WO 98/13076	Apr. 02, 1998	WIPO	

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PLACE OF PUBLICATION)	
	Abumrad et al., "Cloning of a rat adipocyte membrane protein implicated in binding or transport of long-chain fatty acids that is induced during preadipocyte differentiation. Homology with human CD36," <i>J Biol Chem.</i> 268(24):17665-17668 (1993).
	Casadei et al., "A randomized and prospective study comparing treatment with high-dose intravenous immunoglobulin with monoclonal antibodies for rescue of kidney grafts with steroid-resistant rejection," <i>Transplantation</i> 71:53-58 (2001).
	Claffey et al., "Vascular endothelial growth factor. Regulation by cell differentiation and activated second messenger pathways," <i>J Biol Chem.</i> 267(23):16317-16322 (1992).
	Darland et al., "TGF beta is required for the formation of capillary-like structures in three-dimensional cocultures of 10T1/2 and endothelial cells," <i>Angiogenesis</i> 4:11-20 (2001).
	Donati et al., "Reparation of a severe case of aplasia cutis congenita with engineered skin," <i>Biol Neonate</i> 80:273-276 (2001).
	Emoto et al., "Troglitazone treatment increases plasma vascular endothelial growth factor in diabetic patients and its mRNA in 3T3-L1 adipocytes," <i>Diabetes</i> 50:1166-1170 (2001).
	Filipponi et al., "Animal models of fulminant hepatic failure: need to test liver support devices," <i>Dig Liver Dis.</i> 33(7):607-613 (2001).
	Flamant et al., "Epidermal growth factor receptor transactivation mediates the tonic and fibrogenic effects of
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	endothelin in the aortic wall of transgenic mice," <i>FASEB J.</i> 17(2):327-9 (2003).
	Gregoire et al., "Understanding adipocyte differentiation" <i>Physiol Rev.</i> 78(3):783-809 (1998).
	Gurnell et al., "A dominant-negative peroxisome proliferator-activated receptor gamma (PPARgamma) mutant is a constitutive repressor and inhibits PPARgamma-mediated adipogenesis," <i>J Biol Chem.</i> 275(8):5754-5759 (2000).
	Hibino et al., "First successful clinical application of tissue engineered blood vessel," <i>Kyobu Geka.</i> 55:368-375 (2002) (summary in English p. 373).
	Hirschi et al., "PDGF, TGF-beta, and heterotypic cell-cell interactions mediate endothelial cell-induced recruitment of 10T1/2 cells and their differentiation to a smooth muscle fate," <i>J Cell Biol.</i> 141(3):805-814 (1998).
	Jain, "Molecular regulation of vessel maturation," <i>Nat Med.</i> 9(6):685-693 (2003).
	Jain et al., "Dissecting tumour pathophysiology using intravital microscopy," <i>Nat Rev Cancer</i> 2(4):266-276 (2002).
	Jain et al., "Vessels of death or life," <i>Sci Am.</i> 285(6):38-45 (2001).
	Krupnick et al., "A novel small animal model of left ventricular tissue engineering," <i>J Heart Lung Transplant</i> 21(2):233-243 (2002).
	Kovalenko et al., "Selective platelet-derived growth factor receptor kinase blockers reverse sis-transformation," <i>Cancer Res.</i> 54(23):6106-6114 (1994).
	Lazar, "Becoming fat," <i>Genes Dev.</i> 16(1):1-5 (2002).
	Lilla et al., "Metalloproteases and adipogenesis: a weighty subject," <i>Am J Pathol.</i> 160(5):1551-1554 (2002).
	Mandrup et al., "Obese gene expression at in vivo levels by fat pads derived from s.c. implanted 3T3-F442A preadipocytes," <i>Proc Natl Acad Sci U S A.</i> 94(9):4300-4305 (1997).
	McKee et al., "Human arteries engineered in vitro," <i>EMBO Rep.</i> 4(6):633-638 (2003).
	Morikawa et al., "Abnormalities in pericytes on blood vessels and endothelial sprouts in tumors," <i>Am J Pathol.</i> 160(3):985-1000 (2002).
	Oberpenning et al., "De novo reconstitution of a functional mammalian urinary bladder by tissue engineering," <i>Nat Biotechnol.</i> 17(2):149-155 (1999).
	Orlidge and D'Amore, "Inhibition of capillary endothelial cell growth by pericytes and smooth muscle cells," <i>J Cell Biol.</i> 105(3):1455-1462 (1987).
	Pouliot et al., "Reconstructed human skin produced in vitro and grafted on athymic mice," <i>Transplantation</i> 73(11):1751-1757 (2002).

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EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.	

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	Renz et al., "SCID mouse as a model for transplantation studies," <i>J of Surg Res</i> 65:34-41 (1996).
	Schechner et al., "In vivo formation of complex microvessels lined by human endothelial cells in an immunodeficient mouse," <i>Proc Natl Acad Sci U S A.</i> 97(16):9191-9196 (2000).
	Schoeller et al., "Bladder reconstruction using a prevascularized capsular tissue seeded with urothelial cells," <i>J Urol.</i> 165(3):980-985 (2001).
	Shin'oka et al., "Transplantation of a tissue-engineered pulmonary artery," <i>N Engl J Med.</i> 344(7):532-533 (2001).
	Simper et al., "Smooth muscle progenitor cells in human blood," <i>Circulation</i> 106(10):1199-1204 (2002).
	Soukas et al., "Distinct transcriptional profiles of adipogenesis in vivo and in vitro," <i>J Biol Chem.</i> 276(36):34167-34174 (2001).
	Spiegelman et al., "Molecular cloning of mRNA from 3T3 adipocytes. Regulation of mRNA content for glycerophosphate dehydrogenase and other differentiation-dependant proteins during adipocyte development," <i>J Biol Chem.</i> 258(16):10083-10089 (1983).
	Vacanti and Langer, "Tissue engineering: the design and fabrication of living replacement devices for surgical reconstruction and transplantation," <i>Lancet</i> 354(Suppl.1):SI32-SI34 (1999).
	Varzaneh et al., "Extracellular matrix components secreted by microvascular endothelial cells stimulate preadipocyte differentiation in vitro," <i>Metabolism</i> 43(7):906-912 (1994).
	Yuan et al., "Microvascular permeability of albumin, vascular surface area, and vascular volume measured in human adenocarcinoma LS174T using dorsal chamber in SCID mice," <i>Microvasc Res.</i> 45(3):269-289 (1993).
	Yang et al., "Functional roles for PECAM-1 (CD31) and VE-cadherin (CD144) in tube assembly and lumen formation in three-dimensional collagen gels," <i>Am J Pathol.</i> 155(3):887-895 (1999).
	Yun et al., "Inhibition of PPAR gamma 2 gene expression by the HIF-1-regulated gene DEC1/Stra13: a mechanism for regulation of adipogenesis by hypoxia," <i>Dev Cell.</i> 2(3):331-341 (2002).
	International Search Report mailed August 5, 2004 (PCT/US03/34838).

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